

First Named Inventor:
Application Number:
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Examiner Name:
Title:

Schommer, John E.
09/901,155
10 July 2001
3752
Christopher S. Kim
**WATER CONSERVING AND CLEANING
APPARATUS**

In the specification:

2-16
Page 5, line 14, 24

IDC-A2,AMD

The many novel features of the manifold include a flow director which forces an air and water jet stream onto a surface to be cleaned. Another novel feature is a rear wing. The rear wing, integral (extruded) to the jet manifold, includes a two level cantilevered porch with specifically designed angles and heights to provide optimum air flow and a Venturi effect under the water conserving apparatus. Thus, a minimum of water is required when combined with an air stream to provide maximum pressure at a specific target angle to the surface to be cleaned. Therefore, complete and rapid cleaning is achieved with an order of magnitude savings in water conservation when compared to the prior art. In addition, a cylindrical horizontal length of pipe is integrally manufactured (extruded) into the manifold. Also, a plurality of spray nozzles are secured along the horizontal length of the pipe at generally equally spaced intervals. Finally, on a rear side of the manifold is movably secured a plurality of wheels.

Page 9, line 14 3

IDC-A3,AMD,M

Referring now to **Figure 2**, a perspective view of one embodiment of the present invention is shown. A water conserving and cleaning apparatus 10 comprises

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IDC-A3,AMD,M

numerous major components, including an essentially straight handle 12 of several feet in length, with a hand grip 14 formed around the handle 12 in the vicinity of a proximate to a distal end 16 of the handle 12.

14
Page 13, lines 13-15 11

IDC-A4,AMD

Referring now to **Figure 4**, an enlarged detailed partial section of a right elevation view of the present invention of **Figure 2** is shown. One novel feature is an angle ∂_1 54 at which the handle 12 is secured to the horizontal cylindrical member 30. The specific angle ∂_1 54 has been determined through empirical testing to be the preferred angle for maximum comfort value to the widest group of adults of virtually any age and height. ~~The most preferred angle ∂_1 54 is 47 degrees. This angle is a novel one. The preferred range is~~ Preferably, the range of angle ∂_1 is from 45 to 50 degrees. The most preferred angle ∂_1 54 is 47 degrees. This angle is a novel one.

17
Page 16, line 3 10

IDC-A5,AMD,M

Referring next to **Figure 5**, an enlarged plan view of the jet manifold 26 of **Figure 3** is shown. More clearly seen in this **Figure 5** are the numerous elements previously described or mentioned in one or more of **Figures 1-4**. In addition, the

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horizontal cylinder 30 is integrally manufactured (extruded) into the manifold 26. Also, the plurality of spray nozzles 36 are secured along the horizontal length of the cylinder 30 at generally equally spaced intervals. Finally, on the rear wing 34 of the manifold 26 are movably secured the plurality of wheels 38. At each opposing end of the cylinder 30 is located a cylinder leak stop 74. Each stop 74 is removably secured in the cylinder 30 by two preferred means.